# INFORMATION REPORT NECRMATION PEPORT

## CENTRAL INTELLIGENCE AGENCY

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any in bad weather.  late summer 1954.  one of the gliders had crashed when the tow cable came loose and all 18 soldiershad died.  they were training flights from some aviation school which was not far away because of the frequency with which the gliders passed over the city. The city had no naval or naval-air bases.  there must have been a military school or academy on the right bank of the Ingulets River groups of students, although they might have been from the outskirts of town. They wore khaki uniforms with straight trousers and sky-blue pogoni that had golden winge on their upper surface. On the left lapel of the jacket, they wore a dark blue rhombus containing an open white parachute. The upper part of the parachute bore a red star.  [ they were always in groups of two or three. They were always in groups of two or three. They were always in groups of two or three. They were always in groups of two or three.  There were no experimental centers, shooting ranges, or testing ranges on the outskirts of the city.  Attachment 1: A seven-page report on Krivoy Rog with an overlay to 0250-9992_100, 1700,000, locating coal mines in this area. The report discusses new urban developments, public and industrial facilities, transportation, and a mining laboratory.  Attachment 2: A four-page report on the Izyum Optical Plant in Kharkov, with drawings of the MK-ll (sic) and M-ll prisms. Restricted Shop No. 16, and various types of prisms and glass objects that were manufactured by the plant are mentioned in general terms.  Attachment 3: A seven-page report on the State Light Bulb Plant in Livov with a sketch of the plant area. Plant production, labor force, working conditions, administration, security, and miscellaneous information are described.  SOX1-HUM  Attachment 4: A three-page report on the Petrovskiy Metallurgical Plant in Dnepropetrovsk. Embezzlement, production, production deficiencies, and personalities are discussed.  SOX1-HUM  Attachment 5: A 24-point legend to an overlay to the city of Dneprodzerzhinsk, ap		C-O-N-F-I-D-E-N-T-I-A-L		
west and flew towards the east, returning towards the same direction. They either flew singly or in a group of three. They almost always exceeded the speed of sound because the sound was heard after the plane had passed. Except in bad weather, these planes were seen passing every day during the entire year. They kept flying in the same direction    also		-2-	, ,	
towing two gliders, fly over the city in an east-west direction. The gliders were separated from the tow planes by about 25 or 30 meters. They almost always flew singly but sometimes; groups of three prever late summer 1954; one of the gliders had crashed when the tow cable came loose and all 18 soldershad died. They were training flights from some aviation school was not far away because of the frequency with which the gliders passed over the city. The city had no naval or naval-air bases.  There must have been a military school or academy on the right bank of the Ingulets River students, although they might have been from the outskirts of town. They wore khaki uniforms with straight trousers and sky-blue pogoni that had golden wings on their upper surface. On the left lapel of the jacket, they were a dark blue rhombus containing an open white parachute. The upper part of the parachute bore a red star.  The following reports on the Ukrainian SSR  Attachment 1: A seven-page report on Krivoy Rog with an overlay to 0250-2992_100_1:100,000, locating coal mines in this area. The report discusses new urban developments, public and industrial facilities, transportation, and a mining laboratory.  Attachment 2: A four-page report on the Izyum Optical Plant in Kharkov, with drawings of the Mill (sic) and Mill prims. Restricted Shop No. 16, and various types of prims and glass objects that were manufactured by the plant are mentioned in general terms.  Sox1-HUM  Attachment 3: A seven-page report on the State Light Bulb Plant in Lvov with a sketch of the plant area. Plant production, labor force, working conditions, administration, security, and miscellaneous information are described.  Sox1-HUM  Attachment 5: A 24-point legend to an overlay to the city of Dneprodzerzhinek, approximate scale 1:25,000.  1. Comment 1  USSR delta-Winged aircraft were observed at Tushino no earlier than 1956.	west and flew towards They either flew singl exceeded the speed of plane had passed. Exc	out 2,000 meters. They usus the east, returning towards t y or in a group of three. The sound because the sound was hept in bad weather, these pla	the same direction.  ney almost always  neard after the  anes were seen pass-	
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	at	,
	CITY AND MINING AREA OF KRIVOY ROG	
	OBSERVATION OF DELTA-WINGED JET AIRCRAFT	/
	New Urban Developments	
1.	Dikowka poselok, construction of which began about 1950 and was still continuing in 1956, was located about four kilometers northeast of the center of Krivoy Rog. New buildings were brick and had two, three four, or five stories. These buildings were erected exclusively for employees of the Kirov mine by an enterprise called Fifth Construction which belonged to the construction trust of Krivoy Rog. Dzerzhinskiy poselok was located about five kilometers northeast of the city's center and consisted principally of three, four, five, and six-story brick buildings exclusively for workers at the Dzerzhinskiy mine.	50X1-HUM
	Poselok Libknekhta, located about eight kilometers north of the city, consisted principally of new two, three, four and five-story brick buildings occupied by employees of the Karl Libknekht mine.	50X1-HUM
	structures which appeared to be residential were visible about five kilometers west	
	or the city.	
2.	names had not been changed.  No streets and odd numbers on the left. No streets	50X1-HUM
	were being widened and no buildings were being torn down.	
	Social Institutions	
3•	the city jail was located  probably on the right bank of the Ingulets River  The okrug hospital for the inhabitants of Krivoy Rog was located in Dzerzhinskiy poselok	50X1-HUM
	which was also located here, was for the exclusive use of patients from that poselok. Each poselok had a hospital for its inhabitants. the city hospital was located on ulitsa Engelsa; This hospital handled cases of serious illness and accidents that could not be cared for in the other hospital	s 50X1-HUM
	and took care of the city's inhabitants generally.	
	Hotels and Collective Housing	
4.	The city's only hotel was a five-story brick structure located at about the center of ulitsa Karla Marksa.    collective housing   of the Geological Institute	50X1-HUM
	of Mining Engineers which was on ulitsa Engelsa.	50X1-HUM
	C-O-N-F-I-D-E-N-T-I-A-L	50X1-HUM

C-O-N-F-I-D-E-N-T-I-A-L

50X1-HUM

-3-

	Durdware and Dublide Buildings QQ	50V4 LILIM
	Business and Public Buildings	50X1-HUM
5•	The mine trust for the rayon and the city was located on ulitsa Lenina in a five-story brick building	50X1-HUM
	there were no other ministerial representatives. The city's Communist Party Committee was located on ulitsa Lenina in a three or four-story brick building	50X1-HUM
	The evening university of Marxism- Leninism was located on ulitsa Engelsa in the same building as the Geological Institute for Mining Engineers. There were no foreign diplomatic representatives in the city.	
6.	the city's only market was that of the workers' collective farms (kolkhoznyy rynok), located in the open in a large square about 700 meters from the center of ulitsa Karla Marksa.	50X1-HUM
	Research	
7.	Each mining enterprise had its own laboratory. That of the Kirov mine was located about 1,500 meters west of Dikowka poselok and about four kilometers northeast of the city's center. the city had no other scientific research centers.	50X1-HUM
	Transportation Facilities	
8.	Highways connected Kriwoy Rog with the following places:	
	a. Dnepropetrowsk. This highway was located to the northeast of the city, was six or seven meters wide, paved with asphalt, cobblestones, and stone, and was in very bad condition. It had practically no curves and had kilometer markers. It was unguarded but but motorized traffic policemen patrolled it.	
	b. Kirovograd. This was a dirt road located northwest of the city, about six or seven meters wide, and in very bad condition. Its few curves were very gentle. It had kilometer markers and was patrolled by motorized highway police.	
	c. Mines. This highway was located to the north of the city and ran through the mining towns to Pyatikhatki. It was asphalt-topped, about six or seven meters wide, and was in excellent condition.  Its few curves were gentle.  It was patrolled by highway and urban police in each of the poselki through which it passed.	50X1-HUM
9•	Railroad lines connected Krivoy Rog with Pyatkhatki and Dnepropetrovsk. Both lines had steam-driven trains, double tracks of standard gauge, and were used by both passenger and freight trains. There were other	50X1-HUM
	railroad lines The city's main	50X1-HUM
	station was located about three kilometers east of Dzerzhinskiy poselok.	
10.	The city had only one streetcar line which began on ulitsa Lenina and ended in Dzerzhinskiy poselok, returning over the same route.	50X1-HUM .
	buslines, all unnumbered, began in ploshchad Lenina or nearby. All bore the names of their points of destination which were the poselki of Dikovka, Karl Libknekht and Oktyabrskoye. there was another busline that ran to nearby towns	50X1-HUM
	The city had no trolleybuses or urban railroads.	50X1-HUM
	C-O-N-F-I-D-E-N-T-I-A-L	
		X1-HUM

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- 11. A reinforced-concrete railroad bridge about 100 meters long and about nine meters wide crossed the Saksagan River, near the old Kirovskiy poselok. It had been completed about 1952 or 1953 and was guarded by one or two railroad troops at both entrance and exit. The city had no other new bridge and there were no viaducts, at least not on the left bank of the Ingulets River.
- 12. The city had no traffic signals. There were traffic policemen on such main streets as ulitsa Karla Marksa, ulitsa Lenina, and the one leading to the market

50X1-HUM

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			C-O-N-F-I-D-E-N-T-I-A	-L	
			<b>-</b> 5-		
			an		
	Pol	ice Headquarters	un		
<b>16.</b>	150	meters southeast of p	ters was located on ull loshchad Lenina, in a ki had a city police h	three-story brick	50X1-HUM
	Tha	t of Dikovka poselok	was in a one-story bri	ck building.	
	Ind	ustries			
17.	and	no plans to start an	located in the city. y.   verlay showing location		50X1-HUM
	a.	the city center.	located about four kil rowochnaya fabrika (DS		50X1-HUM
		numbers. The Kirov Kirov, and located a center; the south sh main shaft and locat shaft, located about and the north shaft	nes in the area bore n mine had four shafts: bout four kilometers n aft (Yuzhnaya Shakhta) ed about one kilometer 1,400 meters southwes (gevernaya Shakhta), 1 aft, which became oper	the main shaft, call ortheast of the city , connecting with the from it; the Karnawa t of the south shaft; ocated about 700 meter	e atka ers
	ъ.	the Kirov mine's sou	e was located about tw th shaft. It had thre located in a straight bout two kilometers ap	e shafts line, and the first	50X1-HUM
	c.	Karl Libknekht mine of the Kirov mine's	was located about thre north shaft.	e kilometers northess	50X1-HUM
	d.	Roza Lyuksemburg min northeast of the Kar	e was located about th	ree kilometers sligh	50X1-HUM
	е.	Oktyabrskaya Revolyu slightly northeast o	tsiya mine was located f the Roza Lyuksemburg	about five kilomete:	50X1-HUM
	f.	Other mines, includi the Oktyabrskaya Rev	ng the Lenin mine, wer	re located northeast	50X1-HUM
18.	and	it was planned to op ated 500 meters from	ing west of the north en another mine in tha the north shaft and ot	t area. Some shafts	were
19. 20.	Hou	ne were no oil pipeli ness in Dikowka had no All electr om the DneproGES. Cit		area was transmitted a the Ingulets River	50X1-HUM
		[	C-O-N- <b>T</b> -I-D-E-N-T-I-A-	- <u>L</u>	50X1-HUM

C-O-N-F-I-D-E-N-T-I-A-L 50X1-HUM \ -6att via underground pipes. There was no canal system. Neither homes nor stores in Dikovka had telephones; officials may have had them 50X1-HUM1-HUM Krivoy Rog had telephones. in their homes. The telegraph 50X1-HUM exchange and the post office were located on ulitsa Karla Marksa in what was a two-story brick building. Kirovskiy 50X1-HUM poselok had a branch post office. 50X1-HUM

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50X1-HUM

C-O-N-F-I-D-E-N-T-I-A-L

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C-O-N-F-I-D-E-N-T-I-A-L

C-O-N-F-	I-D-E-N-T-I-A-L	50X1-HUM
L	att	
COUNTRY: USSR (Lvovskaya oblast)	REPORT	
SUBJECT: State Light Bulb Plant in Lvov	DATE OF	
	DATE A	
PLACE ACQUIRED:	DATE OF REPORT: 21 June	19 <b>6</b> 0 50X1-HUM

#### STATE LIGHT BULB PLANT IN LVOV

1. The Gosudarstvenney Lampovyy Zavod (State Light Bulb Plant) had not been known by any other name previously and had no numerical designation. It was formerly subordinate to the Ministry of Electrical Power Stations and Electrical Industry. The plant was located at the corner of Turgeneva and Selesnyaka streets (address: 78 Turgeneva street), Krasnoarmeyskiy rayon, in the southwestern section of Lvov, Lvovskaya oblast.

Description

50X1-HUM

2. The plant territory occupied an area approximately 200 x 50 meters in size. Construction of the plant was terminated in 1956.

at the plant only one three-story building (a former schoolhouse) was in use. This building was augmented by the construction of five new plant buildings. The sides of the plant area bordering Turgeneva and Selesnyaka streets were lined with a stone wall approximately two and one-half meters high and 30 centimeters thick. The other sides were bordered by a 15-strand barbed wire fence supported by small iron fence posts approximately two-and-one-half meters high and five centimeters thick. The western section of the plant territory faced the countryside. From Turgeneva street there were five plant entrance gates, only one of which was a personnel entrance. (Refer to plant layout, page 8.)

C-O-N-F-I-D-E-N-T-I-A-L

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	C-O-N-F-I-D-E-N-T-I-A-L	
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3. [	this plant was constructed by Soviet labor camp internees who had been imprisoned for small, unimportant crimes.	50X1-HUM 50X1-HUN
Ę	the Soviets were not in favor of undertaking new construction projects near the border.	
	Plant Production	
4.	The plant products were:	
	a. Light bulbs, with diameters from 55 to 95 millimeters, weighing approximately 40 grams, white transparent and translucent, in wattages from 25 to 500. On the lower side of the bulb was the plant trademark, a circle with the initials LSEZ-Lvovskiy Soyuzniy Electrolampovyy Zavod (Lvov Union Electric Light Bulb Plant). Inside this circle was another smaller circle with a number indicating the wattage. (Page 8, figure 2.) There were no series numbers.	
	b. Radio tubes.	
	c. Television tubes.	50X1-HUM
	d. in building No. 4, small automobile and airplane lights were manufactured in one, one-and-one-half, two and two-and-one-half watt	
	sizes.  nor repair	
	this plant did not manufacture/any type of military material.	50X1-HUM
5•	Approximately 50,000 light bulbs were manufactured daily which was the establish norm. In case of necessity the plant was capable of producing 75,000 bulbs in	
	time of war a small part of the plant could be converted to war production.	50X1-HUN
6.	The mixture of the materials used in making glass was prepared in building number 7, then taken to the ovens in buildings number 8, 5, and 6. The mixture was heated to 1,400 degrees, and after having passed through this phase, the molten glass was a reddish white color. All control apparatus and machinery in the plant were automatic. The electrically operated plant machines were of German, Hungarian, and Czechoslovakian make. The machinery maintenance methods were out-dated but the machinery itself was considered excellent.	
7.	The light bulbs were individually packed in cardboard cartons and then in boxes of 50. On the outside of these boxes was a sketch of a bulb with the factory trade mark. Small three-ton trucks were used for transportation. The plant had six three-ton trucks, three one and one-half ton trucks, two tow trucks and two passenger cars, the latter for the use of the director and other personnel. Plant products were stored in the same building in which they were manufactured	
	C-O-N-F-I-D-E-N-T-I-A-L	

C-O-N-F-I-D-E-N-T-I-A-L	50X1-HUM
-3-	
acc	

8. The following raw materials were brought to the plant: caustic soda, sand, charcoal, surfuric acid, an acid of magnesium, sulfate, a yellow metal, and a white metal for filaments, wolfram, molybdenum, tin, lead, and barium. Natural gas was used in the plant and in case of gas failure there was a 10,000 liter gas-oil reserve tank. The wolfram and molybdenum were imported from Hungary. All raw materials arrived at the town railroad station and from there they were transported to the plant by truck. Shipments of raw materials (quantities unknown) arrived approximately every two months. For the production of glass, approximately 25 tons of raw materials were used daily, 70 per cent of which was sand, 16 percent caustic soda, eight percent barium, five percent an acid of magnesium and one percent charcoal.

#### Utilities

Raw Materials

9. Water was supplied to the plant by underground pipes of the town water system. Electricity was also supplied from the town source. The supply system was adequate and of 280 volts.

50X1-HUM

#### Labor Force and Working Conditions

- 10. There were approximately 3,000 workers in this plant of whom 75 percent were women.

  50 percent of the personnel were specialists. The plant operated on a six-day work week and there were three eight-hour work shifts. Approximately 1,200 workers were employed on each of the first two shifts, and 600 workers on the third shift. The average monthly salary was 600 rubles.
- 11. The plant operated on a Stakhanovite basis, but there was no overtime work. It was not difficult for the plant to maintain the average production norm. There were no strikes. (Anyone who participated in a strike faced a 25-year prison sentence.) There were no complaints. There were no special privileges for anyone.

  if anyone had special privileges they would have been for the higher authorities and Party secretaries.

  50X1-HUM
- 12. Absenteeism was prohibited except in case of sickness. There was a first aid station in building No. 2, with 10-12 beds, staffed by a doctor and a nurse on each shift.

#### 13. Organization and Personnel

The plant organization was headed by the plant director. Immediately subordinate to him were: the production and wage chief; the assistant director; the chief engineer; the personnel chief; the chief of procurement and sales; and also the Party chief. The production and wage chief supervised the cashier. The chief engineer supervised the chief chemist and the chief of plans, who directed the

C-O-N-F-I-D-E-N-T-I-A-L	
	50X1-HUM

C-O-N-F-I-D-E-N-T-I-A-L	
-4- Cele	

activities of the construction chief. The personnel chief was in charge of the workshop chiefs. Subordinate to the chief for procurement and sales were the OTK chief and the OTK workshop chiefs. The chief chemist supervised four workshop chemists and subordinate to each workshop chemist was a workshop technician. Each of these workshop technicians directed two workshop foremen who were individually assisted by 12-15 assistant foremen, who were each in charge of a section of 25 workers. The Party organization was as follows: the Party secretary directed the Party workshop secretaries who were responsible for the Party members in the workshops. The labor union chief was also subordinate to the Party secretary, and the workshop labor union representatives received instruction from the labor union chief. Also subordinate to the Party secretary were the Komsomol chief and all the members of this youth organization.

50X1-HUM

14.			
15.	Marchenko (fnu)	was the chief engineer.	
16.	Badrov (fnu)	chief of personnel	

# Plant Security

- 17. The plant guards were stationed only within the plant territory. There were no sentry boxes. The guard service was also divided into three shifts. There were approximately 25 male guards subordinate to the plant, who were armed with what appeared to be surplus army rifles. A plant pass was needed to enter the plant territory. This pass which contained the bearer's photograph and was valid for one year, had to be shown to the guard in building number 3 when entering and leaving the plant. Once inside the plant area the workers could freely enter all buildings except building number 1 in which the television sets were manufactured.
- 18. The fire-fighting squad consisted of 18 firemen. The plant was equipped with fire extinguishers. There was no pump truck and if necessary the firemen connected water numbs to the underground water system.

C-O-N-F-I-D-E-N-T-I-A-L

50X1-HUM

19.

		C-O-N-F-I-D-E-	N-T-I-A-	L	٦	
•						50X1-HUM
		<b>-5-</b>				
Pla	nt Layout		aa.			
	er to Figure 1, page 8 ntifies numerical designat	cions:	sketch o	of the pla	ant layout	50X1-HUM
1.	This fireproof building dimension. It was four skylight roof, and had no building located at the were heavy machinery (latthe different parts used	stories high, of be basement. There south side of the thes) which were	rick cons were the structuration atilized	struction hree entree. On the in the mation.	with a flat ances to the he first floor achining of	50X1-HUM
	floor complete television floor television screens for television sets were sion sets were assembled this floor, not because a presence of curious onlo	were produced and manufactured. On . Unauthorized po it was a secret sl	on the forest	red. On third fl win floor were not	oor the tubes the televi- admitted to	
2.	This three-story, brick area dimension. It was trances. The hipped rooming ated tile.	the plant office 1	building	and had	three en-	
3•	This was a one-story brideneters in area dimension used by the workers when the building was space for and a telephone.	with a flat roof entering and leave	The tv	vo entran	ce doors were ea. Inside	
4.	This brick building was and had a hipped roof who when the town was under later it was converted in the complete manufacture machinery in this buildinall in excellent working of this building was expet to China. This shop work on each shift.	ich sloped at appropriate the first plan of ordinary lighting were of German condition.  The present to the Satel and the satel are the satel	roximatelnis building building to build to build and Hung builte countries with appearent of	ly a 60 dding had ing. In took place garian ma untries a proximate of the wo	been a school. this building e. The ke and were the production nd principally ly 300 workers rkers in this	50X1-HUM 50X1-HUM
5•	building were women. To 150,000 bulbs with a permoter This one-story brick, fir proximately 30 x 15 x 10 doors. This building continuous that the story brick is the story brick in the story brick in the story brick in the story brick is the story brick in the	nitted rejection of reproof building of meters in dimensi	rate of t vith a fl	three-fou Lat skyli ere were	r percent.l ght roof, was an	

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C-O-N-F-I-D-E-N-T-I-A-I.	
-6- au	

gas oven constructed of large earthen fireproof blocks operated at a pressure of approximately five atmospheres. Also in this building glass tubes were manufactured which were used in the light bulbs. The machinery was in excellent condition. No other details were known. This shop worked in three shifts employing a total of 150 workers (approximately 50 percent women). The production rate was approximately nine tons of glass in various forms, which were sent to the other buildings where needed. The rejection rate was approximately four percent.\*

- 6. This two-story brick fireproof building had a hipped roof which sloped at approximately a 60 degree angle. This building contained an oven smaller than the one described in No. 5 above. Glass tubes were also manufactured in this building but they were smaller than those produced in building number 5. Approximately 100 persons worked in this shop and the production was sent to other plant shops which were engaged in the manufacture of light bulbs.
- 7. This was a one-story brick fireproof building approximately 25 x 10 meters in area dimension with a flat, skylight roof. There were two entrance doors. This building contained small machinery used in the mass production of radio and television tubes.

50X1-HUM

The shop production was sent to building number 4 where it was incorporated in the manufacture of tube and bulb filaments. Approximately 100 persons worked in this building, 75 percent of whom were women.\*

8. This was a three-story brick fireproof building with a flat skylight roof. This building which had two entrance doors, was approximately 20 x 30 meters in area dimension. On the first floor were the storage areas for plant pro- 50X1-HUM duction. On the second floor there were two 120 metric ton ovens. On the third floor were two large automatic Hungarian-make machines which manufactured 25,000light bulb shells in eight hours.

they were in excellent working condition. Approximately 400 persons worked in this installation in three shifts.\*

- 9. This one-story brick building with a flat skylight roof, and two entrance doors, contained a forge shop for repairing plant machinery. Approximately 50 persons worked in this building in two shifts.
  - \*Buildings number 5, 7 and 8 each had a cylindrical smokestack approximately 80 meters high. The diameter at the base was approximately three meters and the smokestack tapered slightly toward the top.

Refer to lettered entrance gates which are described as follows:

A. Truck entrance gate. This gate had two wooden doors opening in the center and trucks destined for point No. 1 entered through this gate.

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C-O-N-F-I-D-E-N-T-I-A-L	50X1-HUI
-7- acc	

- B. This gate was the same as above and was the entrance preferred by the director and administrative personnel of the plant.
- C. This gate had only one door which was very strong. This gate was used for entering and leaving the building designated as point 2.
- D. This gate which had only one wooden door, was used by the workers who then passed through point No. 3 into the plant territory.
- E. Also this gate only had one wooden door as "D". However this gate was only used as an exit by the workers after having passed through point No. 3.
- F. This gate had two wooden doors opening in the center but constructed in the form of a fence. This gate was used by trucks hauling materials in and out of the plant and by trucks hauling out plant production.

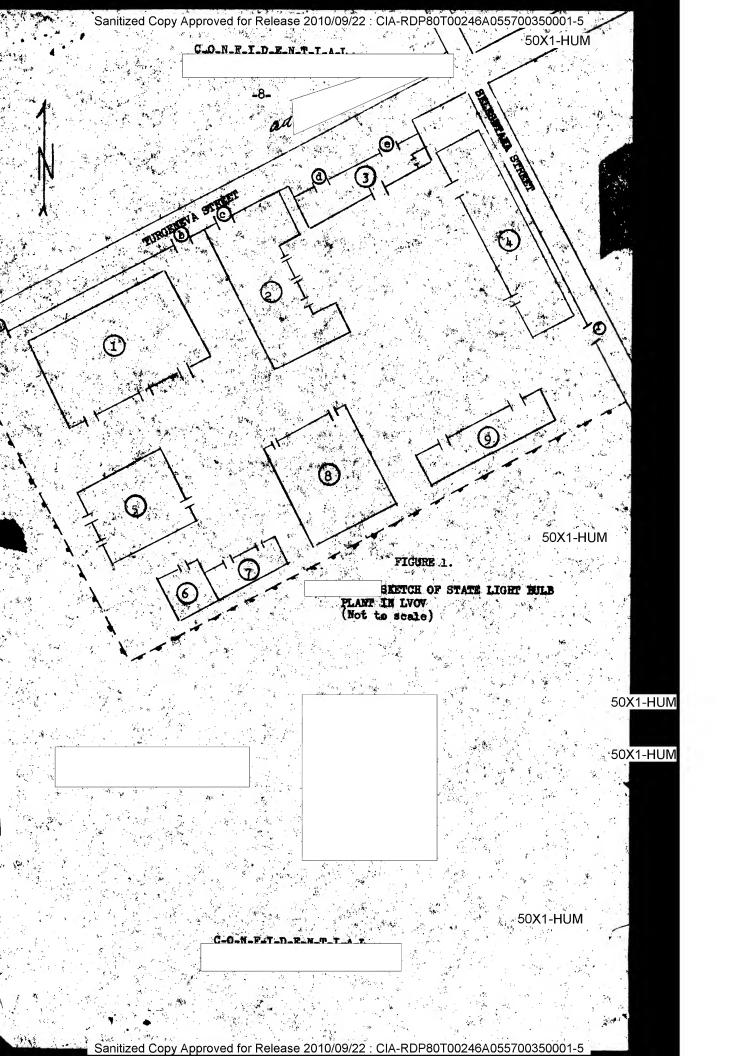
Comment:

50X1-HUM

1. It could not be determined whether or not this production figure represented daily, weekly or monthly shop output.

50X1-HUM

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# INFORMATION REPORT INFORMATION REPORT

## CENTRAL INTELLIGENCE AGENCY

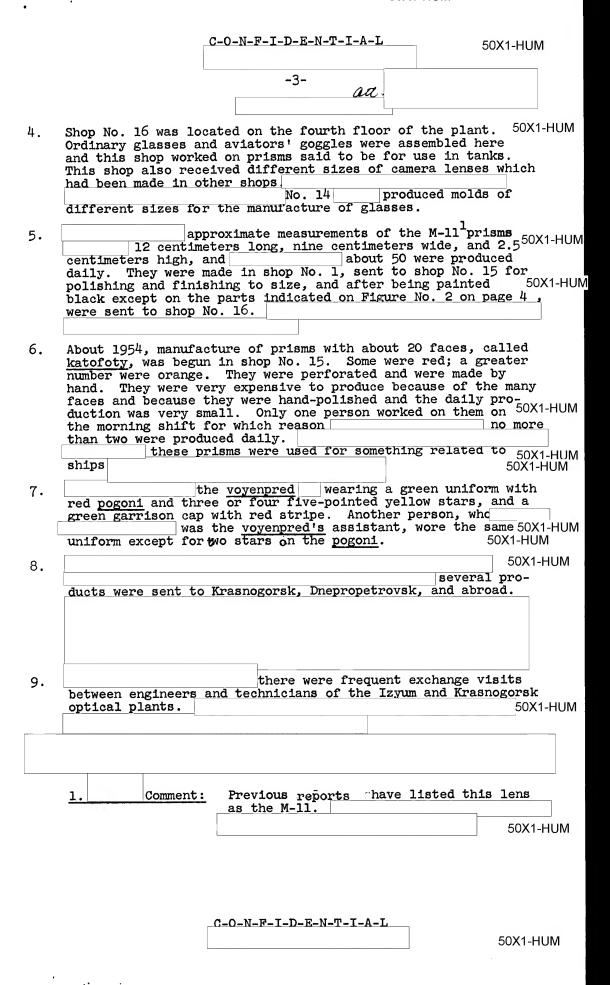
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50X1-HUM

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	•	act		
		C-O-N-F-I-D-E-N-T-	I-A-L	50X1-HUM
		-2-		
		IZYUM OPTICAL PL	ANT	
				50X1-HUM
1.	Plant, produced verassembled goggles enamel to MK-ll pr	nly restricted shop ry small lenses for for use by aviators isms (see paragraph ed at the entrance a propusk	use by ophthalmo, and applied bla 2 below). A gutto this shop, ent	ologists, ack 50X1-HUM ard cry to
	consisting of a tr pointed stars. shop No. 16 and No for the manufactur- office of the voye wore a green uniform	er's photograph, furiangle formed by the . 14, made more of glasses. Next mpred, an officer or m with yellow pogot of yellow stars. To	ree verv small fi lds of different to shop No. 16 w f unspecified rar ni on which were	ountersign 50X1-HUM types yas the nk who an un-
	officer was assignated the control of the control o	ed full-time to a na id a two-week visit pall <u>y. The commiss</u> :	aval commission f to the plant, vi	rom siting
2.	produced in rough shop No. 15 for proto shop No. 16 to 1 face (see Figure 1 The prisms were approximately should be shown to the prisms were approximately should be shown to	whose manufacture be in shop No. 1, from ecision finishing an be enameled on all to on page 4), which is proximately 12 cents our entimeters high	where they were nd polishing, and faces except the had a mirrored su imeters long, sev	sent to then oblique rface.
	facturing process	tory next to shop No was begun. It was s for use in tanks.	said at the plant	as manu- that
3 <b>.</b>	About 1953, the marknown as katofoty,	nufacture of orange- was begun in shop	-colored glass ob No. 15.	fects 50X1-HUM
	center.	they were for the standard standard the standard		nes. in the 50X1-HUM
		they tended to felt on a machine ation.	o break during po especially adapt	lishing. ed for 50X1-HUM d and
		C-O-N-F-I-D-E-N-T-	I-A-L	50X1-HUM

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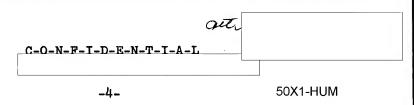
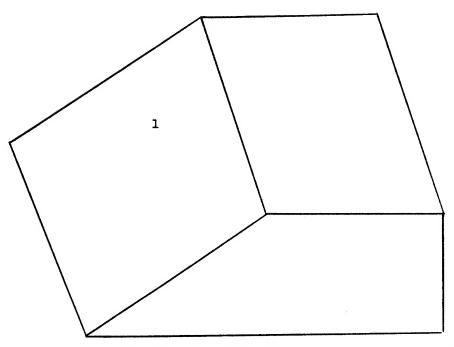
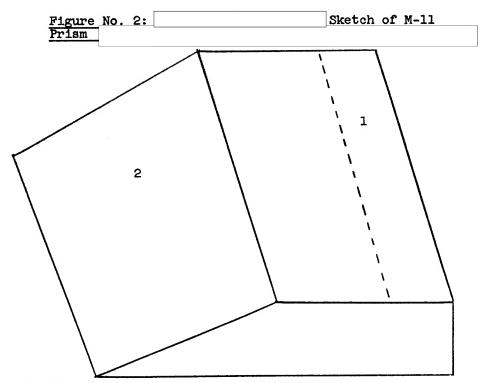


Figure No. 1: Sketch of MK-11 (sic)
Prism



1. Only face of prism not enameled in black.

50X1-HUM



1. and 2. Parts of prism not painted black.

C-O-N-F-I-D-E-N-T-I-A-L